

* SWBAT observe what happens to acceleration as force goes up
(keeping the same mass)

Sep 6-2:31 PM

Welcome!!!

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SECA Physics
Tuesday 21 October 2014

Centering...

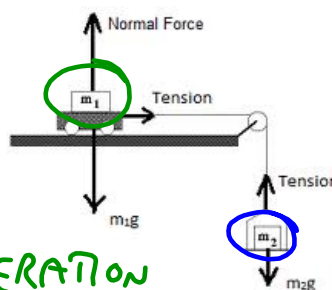
- * Pick up:
 - slip of paper (for later)

Opening Question:

What did we do with the carts on Monday? What variation will we try today?

CHANGED MASS SEE ACCELERATION

CHANGE PULL SEE ACCELERATION



Sep 7-7:04 AM

Centering...

Think Pair Share:

Changing the cart's mass while keeping the same pull to speed it up.

1. Look at the graph and think about what it is telling us. Make as many observations as you can.

---- SILENT ----

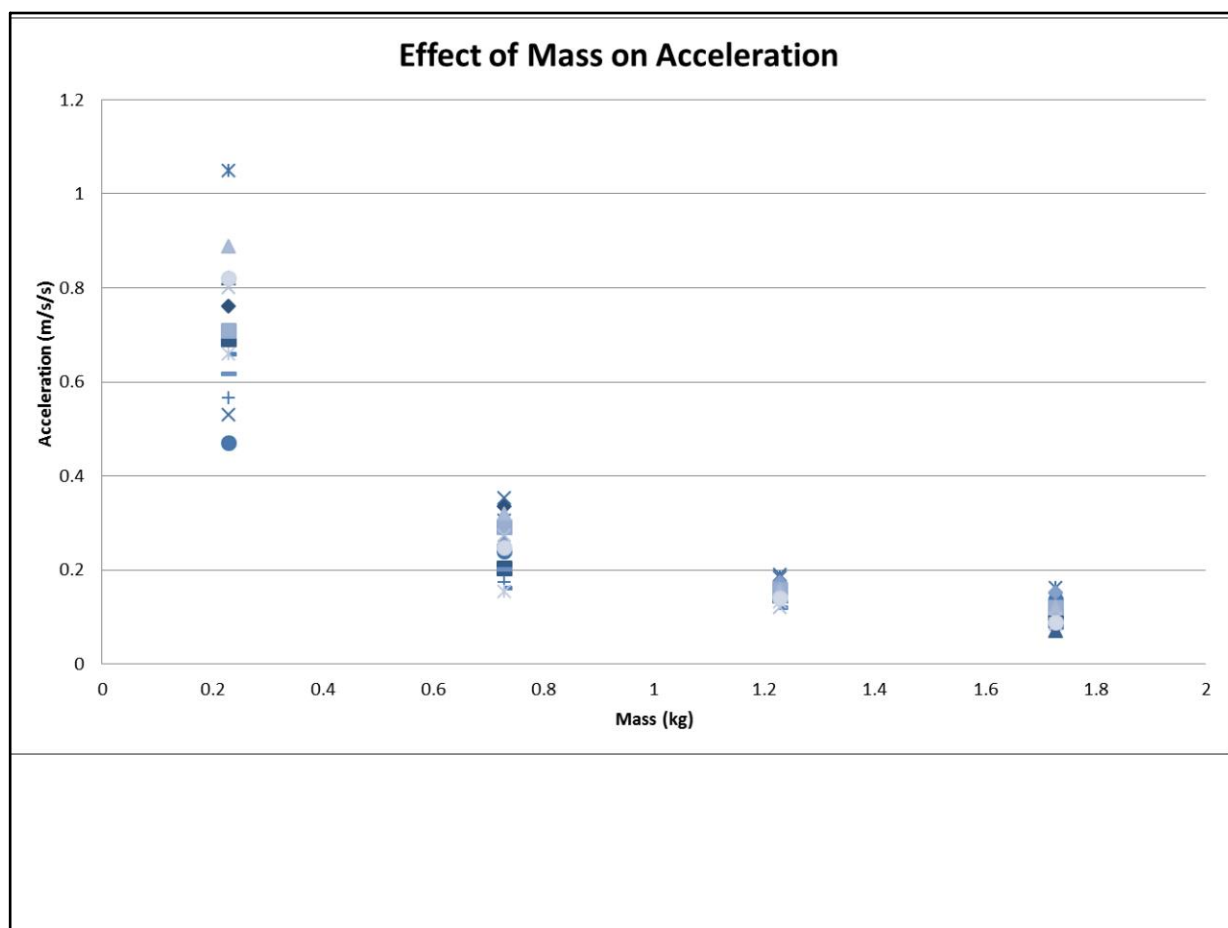
2. Talk with people at your table about what you observed and what you think it is telling us.

---- TALKING ----

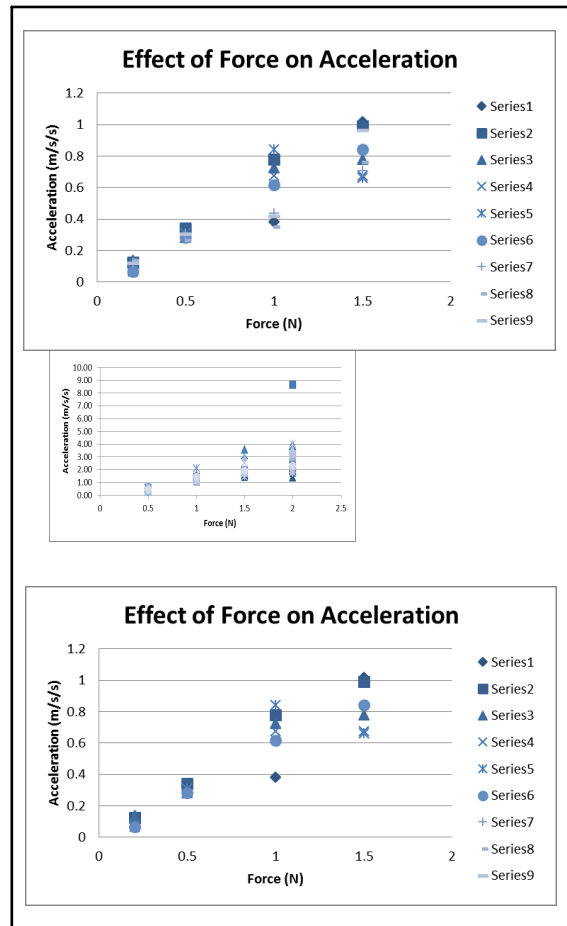
3. Everyone should have something they can share with the whole class about the graph.

---- LISTENING ----

Oct 26-7:31 AM



Oct 21-1:23 PM



Oct 25-7:28 AM

What did we see today? SAME MASS

MORE ^{PULLING} FORCE \Rightarrow MORE ACC.

What did we see Monday? SAME PULLING FORCE

MORE MASS \rightarrow LESS ACC.

Oct 26-7:49 AM

MORE MASS \rightarrow LESS ACC:
 MORE FORCE \rightarrow MORE ACC:

Graphs of our experiments...

Newton's 2nd Law:

$$\rightarrow F = m a$$

FORCE = MASS · ACCELERATION

MON: $\langle \text{SAME} \rangle = \uparrow \cdot \downarrow$

 TODAY: $\uparrow = \langle \text{SAME} \rangle \uparrow$

Oct 28-6:55 AM

Eureka - Change in speed...

Connect the Physics Dots...

<http://www.youtube.com/watch?v=DzDBe7ScDeM>

Newton's 1st Law: Objects ...

STAYS...

Inertia is the name for that!

Mass is a measure of inertia

Forces change motion \Rightarrow cause acceleration

Newton's 2nd Law: $F = ma$

Oct 27-7:25 AM

Daily 3 Questions

No CP hmwk

- * Every day except test/project days
- * 3 Questions on the topics of the day
- * Main source of daily points
- * I am happy to give credit when I have no concerns about someone giving or getting help with the answers.

You can't get your points if you don't have your NAME!!!

Name	Period
1.	
2.	
3.	

Sep 9-7:32 AM

1. **Monday's** experiment involved

- ☒ A. always using the **same** pulling force on the car
- ☐ B. always using **different** pulling forces on the car
- ☐ C. neither

2. **Today's** experiment involved

- ☐ A. always using the **same** pulling force on the car
- ☒ B. always using **different** pulling forces on the car
- ☐ C. neither

3. More pulling force means

- ☒ A. more acceleration
- ☐ B. less acceleration
- ☐ C. the same acceleration

Oct 8-6:48 AM